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* * * * * Welcome to STN International * * * * *

NEWS	1		Web Page for STN Seminar Schedule - N. America
NEWS	2	DEC 01	ChemPort single article sales feature unavailable
NEWS	3	FEB 02	Simultaneous left and right truncation (SLART) added for CERAB, COMPUAB, ELCOM, and SOLIDSTATE
NEWS	4	FEB 02	GENBANK enhanced with SET PLURALS and SET SPELLING
NEWS	5	FEB 06	Patent sequence location (PSL) data added to USGENE
NEWS	6	FEB 10	COMPENDEX reloaded and enhanced
NEWS	7	FEB 11	WTEXTILES reloaded and enhanced
NEWS	8	FEB 19	New patent-examiner citations in 300,000 CA/CAPLUS patent records provide insights into related prior art
NEWS	9	FEB 19	Increase the precision of your patent queries -- use terms from the IPC Thesaurus, Version 2009.01
NEWS	10	FEB 23	Several formats for image display and print options discontinued in USPATFULL and USPAT2
NEWS	11	FEB 23	MEDLINE now offers more precise author group fields and 2009 MeSH terms
NEWS	12	FEB 23	TOXCENTER updates mirror those of MEDLINE - more precise author group fields and 2009 MeSH terms
NEWS	13	FEB 23	Three million new patent records blast AEROSPACE into STN patent clusters
NEWS	14	FEB 25	USGENE enhanced with patent family and legal status display data from INPADOCDB
NEWS	15	MAR 06	INPADOCDB and INPAFAMDB enhanced with new display formats
NEWS	16	MAR 11	EPFULL backfile enhanced with additional full-text applications and grants
NEWS	17	MAR 11	ESBIOBASE reloaded and enhanced
NEWS	18	MAR 20	CAS databases on STN enhanced with new super role for nanomaterial substances
NEWS	19	MAR 23	CA/CAPLUS enhanced with more than 250,000 patent equivalents from China
NEWS	20	MAR 30	IMSPATENTS reloaded and enhanced
NEWS	21	APR 03	CAS coverage of exemplified prophetic substances enhanced
NEWS	22	APR 07	STN is raising the limits on saved answers
NEWS	23	APR 24	CA/CAPLUS now has more comprehensive patent assignee information
NEWS	24	APR 26	USPATFULL and USPAT2 enhanced with patent assignment/reassignment information
NEWS	25	APR 28	CAS patent authority coverage expanded
NEWS	26	APR 28	ENCOMPLIT/ENCOMPLIT2 search fields enhanced
NEWS	27	APR 28	Limits doubled for structure searching in CAS REGISTRY
NEWS	28	MAY 08	STN Express, Version 8.4, now available

NEWS 29 MAY 11 STN on the Web enhanced
NEWS 30 MAY 11 BEILSTEIN substance information now available on
STN Easy
NEWS 31 MAY 14 DGENE, PCTGEN and USGENE enhanced with increased
limits for exact sequence match searches and
introduction of free HIT display format
NEWS 32 MAY 15 INPADOCDB and INPAFAMDB enhanced with Chinese legal
status data

NEWS EXPRESS JUNE 27 08 CURRENT WINDOWS VERSION IS V8.3,
AND CURRENT DISCOVER FILE IS DATED 06 APRIL 2009.

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specific topic.

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* * * * * STN Columbus * * * * *

FILE 'HOME' ENTERED AT 15:30:57 ON 24 MAY 2009

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=> file reg

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	0.22	0.22

FILE 'REGISTRY' ENTERED AT 15:31:12 ON 24 MAY 2009
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STRUCTURE FILE UPDATES: 22 MAY 2009 HIGHEST RN 1148179-26-3
DICTIONARY FILE UPDATES: 22 MAY 2009 HIGHEST RN 1148179-26-3

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=>

Uploading A:\10.581545.R1.Brown et al..SRNT.CAPLUS

L1 STRUCTURE UPLOADED

=> d l1

L1 HAS NO ANSWERS

L1 STR

* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

Structure attributes must be viewed using STN Express query preparation.

=> s l1 sss sam

SAMPLE SEARCH INITIATED 15:32:42 FILE 'REGISTRY'

SAMPLE SCREEN SEARCH COMPLETED - 8 TO ITERATE

100.0% PROCESSED 8 ITERATIONS

0 ANSWERS

SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **COMPLETE**

BATCH **COMPLETE**

PROJECTED ITERATIONS: 8 TO 329

PROJECTED ANSWERS: 0 TO 0

L2 0 SEA SSS SAM L1

=> s l1 sss full

FULL SEARCH INITIATED 15:32:51 FILE 'REGISTRY'

FULL SCREEN SEARCH COMPLETED - 176 TO ITERATE

100.0% PROCESSED 176 ITERATIONS

6 ANSWERS

SEARCH TIME: 00.00.01

L3 6 SEA SSS FUL L1

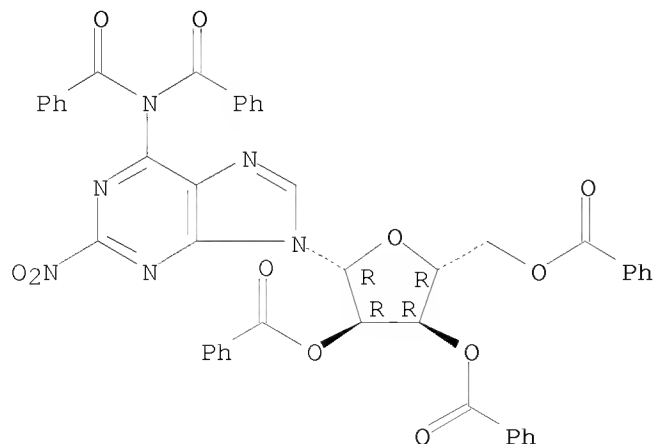
=> d scan

L3 6 ANSWERS REGISTRY COPYRIGHT 2009 ACS on STN

IN Adenosine, N,N-dibenzoyl-2-nitro-, 2',3',5'-tribenzoate

MF C45 H32 N6 O11

Absolute stereochemistry.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):end

=> file caplus

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	186.84	187.06

FILE 'CAPLUS' ENTERED AT 15:33:15 ON 24 MAY 2009
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FILE COVERS 1907 - 24 May 2009 VOL 150 ISS 22
FILE LAST UPDATED: 22 May 2009 (20090522/ED)
REVISED CLASS FIELDS (/NCL) LAST RELOADED: Feb 2009
USPTO MANUAL OF CLASSIFICATIONS THESAURUS ISSUE DATE: Feb 2009

CAplus now includes complete International Patent Classification (IPC) reclassification data for the third quarter of 2008.

CAS Information Use Policies apply and are available at:

<http://www.cas.org/legal/infopolicy.html>

This file contains CAS Registry Numbers for easy and accurate

=> d his

(FILE 'HOME' ENTERED AT 15:30:57 ON 24 MAY 2009)

FILE 'REGISTRY' ENTERED AT 15:31:12 ON 24 MAY 2009

L1	STRUCTURE UPLOADED
L2	0 S L1 SSS SAM
L3	6 S L1 SSS FULL

FILE 'CAPLUS' ENTERED AT 15:33:15 ON 24 MAY 2009

=> s l3

L4 17 L3

=> d l3 ibib abs hitstr 1-17

YOU HAVE REQUESTED DATA FROM FILE 'REGISTRY' - CONTINUE? (Y)/N:nh
YOU HAVE REQUESTED DATA FROM FILE 'REGISTRY' - CONTINUE? (Y)/N:end

=> d l4 ibib abs hitstr 1-17

L4 ANSWER 1 OF 17 CAPLUS COPYRIGHT 2009 ACS on STN

ACCESSION NUMBER: 2008:11519 CAPLUS

DOCUMENT NUMBER: 148:100840

TITLE: Preparation of nucleosides as therapeutic compounds for the treatment of pain and inflammation

INVENTOR(S): Higginbottom, Michael; Savory, Edward Daniel; Brown, Giles Albert; Horgan, Viet-Anh Anne; Chapman, Emma Jane

PATENT ASSIGNEE(S): Biovitrum AB, Swed.

SOURCE: PCT Int. Appl., 70pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

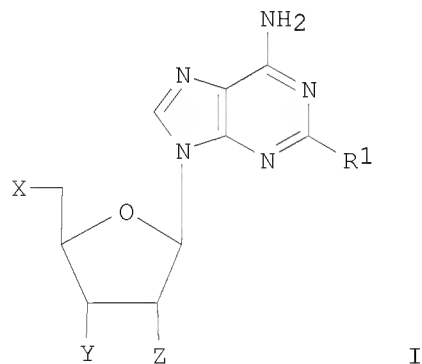
LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2008000745	A2	20080103	WO 2007-EP56378	20070626
WO 2008000745	A3	20080417		
W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BH, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LY, MA, MD, ME, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, SV, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW			
RW:	AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, MT, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AP, EA, EP, OA			
AU 2007263728	A1	20080103	AU 2007-263728	20070626
CA 2654375	A1	20080103	CA 2007-2654375	20070626
US 20080076776	A1	20080327	US 2007-823377	20070626
IN 2008KN04769	A	20090313	IN 2008-KN4769	20081125
PRIORITY APPLN. INFO.:			SE 2006-1398	A 20060627
			US 2006-837146P	P 20060811
			WO 2007-EP56378	W 20070626

OTHER SOURCE(S): MARPAT 148:100840
GI



AB Nucleosides I, when X = Y = Z = OH, R1 is OCH2CF2CF3, phenoxy (substituted with 3-(4- trifluoromethylphenyl), 3,4-dichloro,

(3-trifluoromethyl,4-fluoro), (3-trifluoromethyl,4- chloro), (3-chloro, 4-cyano), or 3,5-bis(trifluoromethyl)), 1-piperaziny1(4-(3,4-dichlorophenyl)), Ph (substituted with 3,4-dichloro, 3,5-difluoro, 3,5-bis(trifluoromethyl) or 3,4,5-trifluoro) or 2-benzofuranyl; or when X = Y = OH and Z = OMe, R1 is OCH3, OCH2CHF2, OCH2cyclopentyl, O-(2,5-difluorophenyl) or (S)-sec-butylamino; or when X = H and Y = Z = OH, R1 is n-hexylamino or cyclopentylamino; or when (IV) X = Z = OH and Y = H, R1 is cyclopentylamino; were prepared for the treatment of pain and inflammation. Thus, nucleoside I (X = Y = Z = OH, R1 = CH2CF2CF3) was prepared and tested for the treatment of pain and inflammation.

IT 62374-23-6P 854158-99-9P

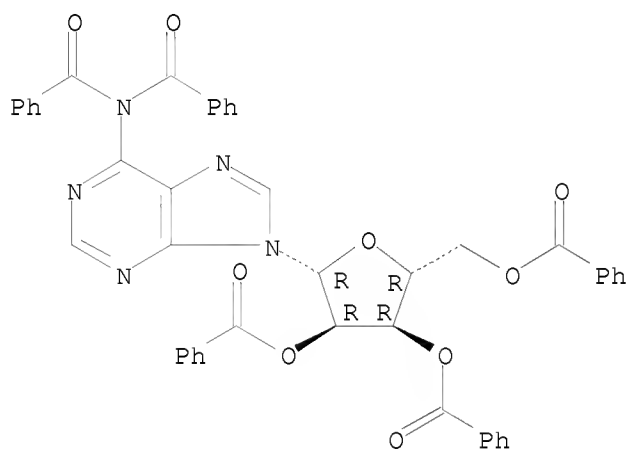
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(preparation of nucleosides as therapeutic compds. for treatment of pain and inflammation)

RN 62374-23-6 CAPLUS

CN Adenosine, N,N-dibenzoyl-, 2',3',5'-tribenzoate (CA INDEX NAME)

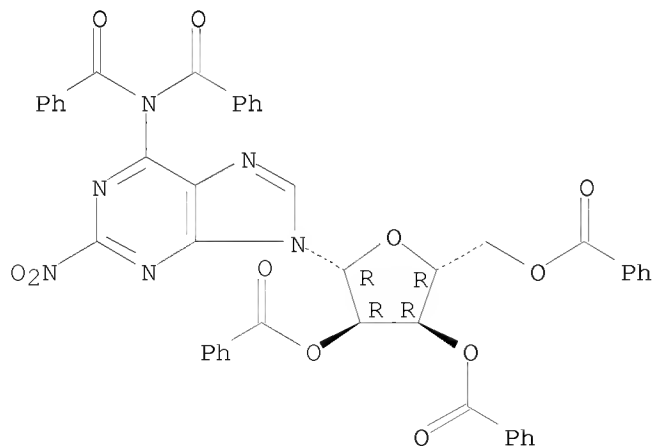
Absolute stereochemistry.



RN 854158-99-9 CAPLUS

CN Adenosine, N,N-dibenzoyl-2-nitro-, 2',3',5'-tribenzoate (CA INDEX NAME)

Absolute stereochemistry.



L4 ANSWER 2 OF 17 CAPLUS COPYRIGHT 2009 ACS on STN

ACCESSION NUMBER: 2006:1143133 CAPLUS

DOCUMENT NUMBER: 146:82151

TITLE: A novel method for the introduction of fluorine into the purine 2-position: synthesis of 2-fluoroadenosine and a formal synthesis of the antileukemic drug fludarabine

AUTHOR(S): Braendvang, Morten; Gundersen, Lise-Lotte

CORPORATE SOURCE: Department of Chemistry, University of Oslo, Oslo, 0315, Norway

SOURCE: Synthesis (2006), (18), 2993-2995

CODEN: SYNTBF; ISSN: 0039-7881

PUBLISHER: Georg Thieme Verlag

DOCUMENT TYPE: Journal

LANGUAGE: English

OTHER SOURCE(S): CASREACT 146:82151

AB A novel method for the introduction of fluorine in the purine 2-position is described and employed in the synthesis of a potential antimycobacterial compound. Also 2-fluoroadenosine has been synthesized for the first time from adenosine with perbenzoylated 2-nitroadenosine as a key intermediate. Mild reaction conditions are employed and few synthetic steps are required. The novel synthesis of fluoroadenosine can be regarded as a formal synthesis of the antileukemic drug fludarabine phosphate.

IT 854158-99-9P

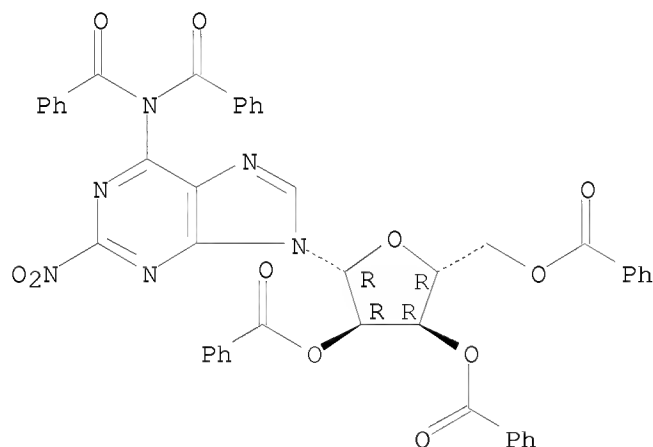
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(synthesis of 2-fluoroadenosine as a synthon toward a formal synthesis of the antileukemic drug fludarabine)

RN 854158-99-9 CAPLUS

CN Adenosine, N,N-dibenzoyl-2-nitro-, 2',3',5'-tribenzoate (CA INDEX NAME)

Absolute stereochemistry.



REFERENCE COUNT: 23 THERE ARE 23 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 3 OF 17 CAPLUS COPYRIGHT 2009 ACS on STN

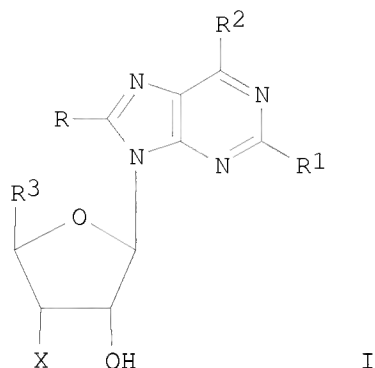
ACCESSION NUMBER: 2005:1004549 CAPLUS

DOCUMENT NUMBER: 143:286636

TITLE: Preparation of nucleosides as adenosine receptors and used for the treatment of pain and inflammation

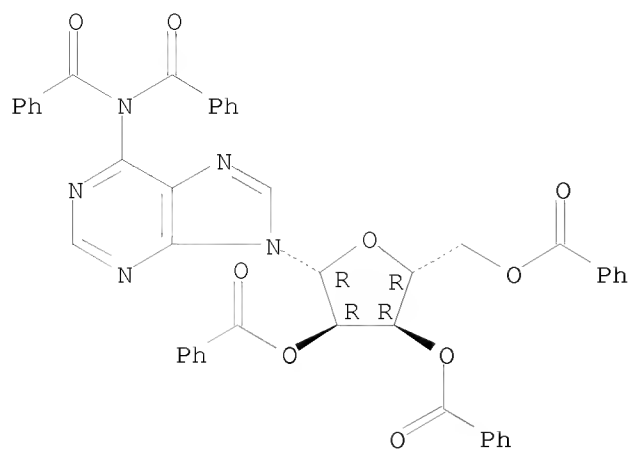
INVENTOR(S): Pritchard, Martyn; Ouzman, Jacqueline; Savory, Edward;
Brown, Giles
PATENT ASSIGNEE(S): Cambridge Biotechnology Limited, UK
SOURCE: PCT Int. Appl., 81 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 2
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2005084653	A2	20050915	WO 2005-GB800	20050304
WO 2005084653	A3	20060518		
W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW			
RW:	BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG			
WO 2004079329	A2	20040916	WO 2004-GB902	20040305
WO 2004079329	A3	20041209		
W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI			
RW:	BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG			
AU 2005218997	A1	20050915	AU 2005-218997	20050304
CA 2557285	A1	20050915	CA 2005-2557285	20050304
EP 1749016	A2	20070207	EP 2005-717878	20050304
R:	AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LI, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR			
CN 1946732	A	20070411	CN 2005-80007119	20050304
BR 2005008488	A	20070731	BR 2005-8488	20050304
JP 2007526291	T	20070913	JP 2007-501345	20050304
MX 2006010075	A	20070410	MX 2006-10075	20060904
NO 2006004365	A	20061122	NO 2006-4365	20060926
KR 2007004792	A	20070109	KR 2006-720304	20060929
IN 2006CN03674	A	20070706	IN 2006-CN3674	20061005
US 20080221060	A1	20080911	US 2007-598520	20071207
PRIORITY APPLN. INFO.:			GB 2004-5009	A 20040305
			GB 2004-5012	A 20040305
			WO 2004-GB902	A 20040305
			GB 2004-12261	A 20040602
			GB 2004-12262	A 20040602
			GB 2004-13627	A 20040618
			GB 2004-19718	A 20040906
			GB 2004-20063	A 20040909
			GB 2004-20615	A 20040916
			GB 2003-5153	A 20030307
			WO 2005-GB800	W 20050304
OTHER SOURCE(S):		CASREACT 143:286636; MARPAT 143:286636		
GI				



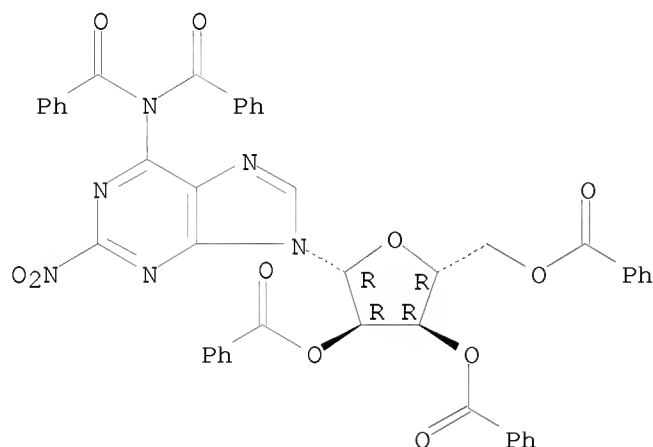
- AB Nucleosides I, wherein X is H, OH; R is H, Me; R1 is H, alkoxy, OCH₂-cyclopropyl, OCH₂-cyclopentyl, phenoxy, OCH₂CH₂OH, OCH₂CH₂F₂, (5-indanyl)oxy, alkylamino, cyclo-alkylamino, exo-norbornane, amino, phenylamino; R2 is NH₂, CH₂OH, NMe₂, methylamino, isoamyl; R3 is CH₂OH, amide, CH₂NHCOPr-n, CH₂NHCONHET; were prepared and used for the treatment of pain and inflammation. Title nucleosides were prepared and used the treatment of pain associated with cancer, pancreatic pain, pain associated with HIV infection, chronic neuropathic pain, lower back pain, failed back surgery pain, back pain, post-operative pain, post phys. trauma pain, cardiac pain, chest pain, joint pain, neck pain, bowel pain, phantom limb pain, obstetric pain, acute herpes zoster pain, acute pancreatitis breakthrough pain, or for the prevention, treatment, or amelioration of neuropathic or other pain caused by, or associated with diabetic neuropathy, poly-neuropathy, fibromyalgia, myo-fascial pain syndrome, osteoarthritis, post herpetic neuralgia, rheumatoid arthritis, sciatica/lumbar radiculopathy, spinal stenosis, trigeminal neuralgia, renal colic, dysmenorrhoea/endometriosis. Thus, I (R = H, R1 = OMe, R2 = NH₂, R3 = CH₂OH) was prepared and tested for the treatment of pain and inflammation.
- IT 62374-23-6P 854158-99-9P
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
 (preparation of nucleosides as adenosine receptors and used for the treatment of pain and inflammation)
- RN 62374-23-6 CAPLUS
- CN Adenosine, N,N-dibenzoyl-, 2',3',5'-tribenzoate (CA INDEX NAME)

Absolute stereochemistry.



RN 854158-99-9 CAPLUS
 CN Adenosine, N,N-dibenzoyl-2-nitro-, 2',3',5'-tribenzoate (CA INDEX NAME)

Absolute stereochemistry.



L4 ANSWER 4 OF 17 CAPLUS COPYRIGHT 2009 ACS on STN
 ACCESSION NUMBER: 2005:648167 CAPLUS
 DOCUMENT NUMBER: 143:267187
 TITLE: Nucleic Acid Related Compounds. 127. Selective N-Deacylation of N,O-Peracylated Nucleosides in Superheated Methanol
 AUTHOR(S): Nowak, Ireneusz; Conda-Sheridan, Martin; Robins, Morris J.
 CORPORATE SOURCE: Department of Chemistry and Biochemistry, Brigham Young University, Provo, UT, 84602-5700, USA
 SOURCE: Journal of Organic Chemistry (2005), 70(18), 7455-7458
 CODEN: JOCEAH; ISSN: 0022-3263
 PUBLISHER: American Chemical Society
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 OTHER SOURCE(S): CASREACT 143:267187
 AB Solns. of peracylated adenosine, cytidine, and related nucleoside derivs. undergo selective N-deacylation upon heating at elevated temps. (oil bath ≥ 105 °C) in methanol. An increase in the bulk of the

N-acyl group has little effect on the rate of N-deacylation but increases the N/O selectivity ratio. Extended heating is required for N-deacylation with aryl-carboxylic acid derivs. Contamination with acidic or basic reagent residues is avoided.

IT 62374-23-6P 863591-87-1P 863591-88-2P

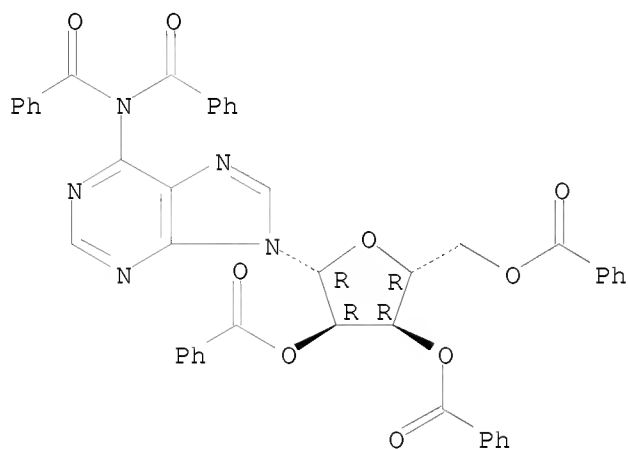
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(regioselective N-deacylation of per-acylated nucleosides in super-heated methanol)

RN 62374-23-6 CAPLUS

CN Adenosine, N,N-dibenzoyl-, 2',3',5'-tribenzoate (CA INDEX NAME)

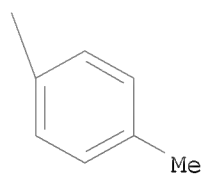
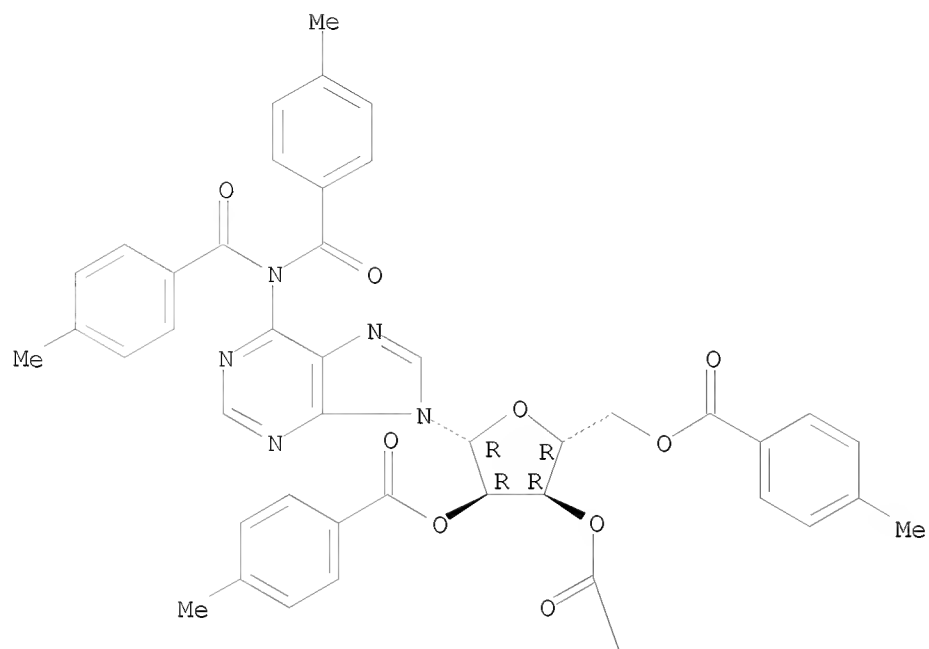
Absolute stereochemistry.



RN 863591-87-1 CAPLUS

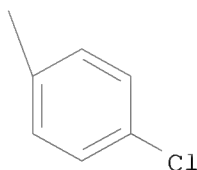
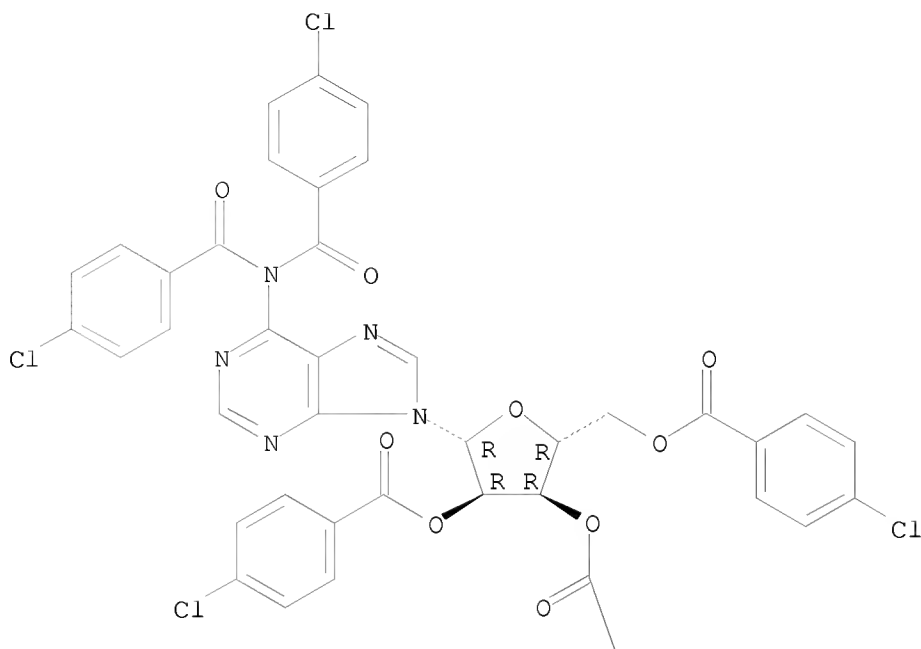
CN Adenosine, N,N-bis(4-methylbenzoyl)-, 2',3',5'-tris(4-methylbenzoate) (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 863591-88-2 CAPLUS
 CN Adenosine, N,N-bis(4-chlorobenzoyl)-, 2',3',5'-tris(4-chlorobenzoate)
 (9CI) (CA INDEX NAME)

Absolute stereochemistry.



REFERENCE COUNT: 24 THERE ARE 24 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 5 OF 17 CAPLUS COPYRIGHT 2009 ACS on STN

ACCESSION NUMBER: 2005:540588 CAPLUS

DOCUMENT NUMBER: 143:60193

TITLE: Improved synthesis of 2-substituted adenosines via nitration reaction

INVENTOR(S): Brown, Giles Albert; Savory, Edward Daniel; Ouzman, Jacqueline Valerie Anne; Stoddart, Alison Margaret

PATENT ASSIGNEE(S): Cambridge Biotechnology Limited, UK

SOURCE: PCT Int. Appl., 32 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

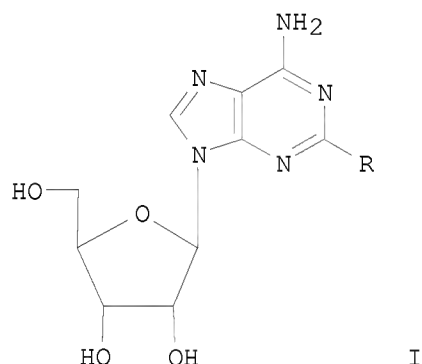
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2005056571	A1	20050623	WO 2004-GB5090	20041203
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD,				

GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC,
 LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI,
 NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY,
 TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW
 RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM,
 AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK,
 EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT,
 RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML,
 MR, NE, SN, TD, TG

AU 2004296242	A1	20050623	AU 2004-296242	20041203
CA 2552583	A1	20050623	CA 2004-2552583	20041203
EP 1694691	A1	20060830	EP 2004-805918	20041203
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, FI, RO, CY, TR, BG, CZ, EE, HU, PL, SK, IS				
CN 1886414	A	20061227	CN 2004-80035597	20041203
CN 100455591	C	20090128		
JP 2007513134	T	20070524	JP 2006-542018	20041203
NO 2006003109	A	20060905	NO 2006-3109	20060704
KR 2006125830	A	20061206	KR 2006-713388	20060704
IN 2006CN02462	A	20070608	IN 2006-CN2462	20060705
US 20090131651	A1	20090521	US 2008-581545	20081114
PRIORITY APPLN. INFO.:			GB 2003-28319	A 20031205
			GB 2003-28321	A 20031205
			WO 2004-GB5090	W 20041203

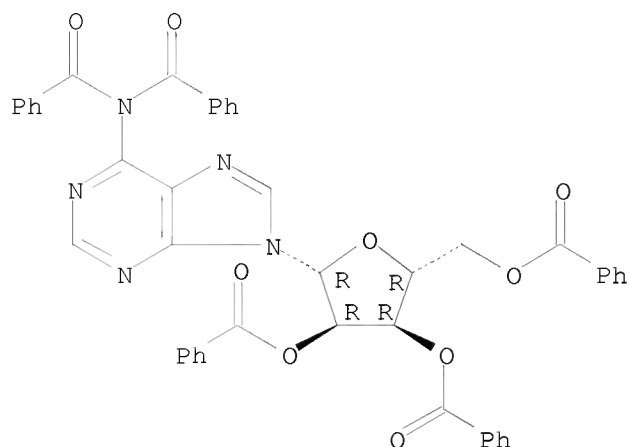
OTHER SOURCE(S): CASREACT 143:60193; MARPAT 143:60193
 GI



- AB Synthesis of 2-substituted adenosines I, using 2-nitro penta-benzoyl adenosine, or 2-nitro penta-acetyl adenosine, as intermediate is described, wherein R = C1-6 alkoxy (straight or branched), a phenoxy group (unsubstituted, or mono-, or di-substituted by halo, amino, CF₃, cyano, nitro, C1-6 alkyl, or C1-6 alkoxy), a benzyloxy group (unsubstituted, or mono-, or di-substituted by halo, amino, CF₃, cyano, nitro, C1-6 alkyl, or C1-6 alkoxy), or a benzoyl group (unsubstituted, or mono-, or di-substituted by halo, amino, CF₃, cyano, nitro, C1-6 alkyl, or C1-6 alkoxy). The methods provide improved yield and purity of product. Thus, nucleoside spongiosine was prepared from adenosine via benzoylation or acetylation followed by nitration and methoxylation reactions.
- IT 62374-23-6P 854158-99-9P
 RL: IMF (Industrial manufacture); RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
 (synthesis of 2-substituted adenosines via nitration reaction)

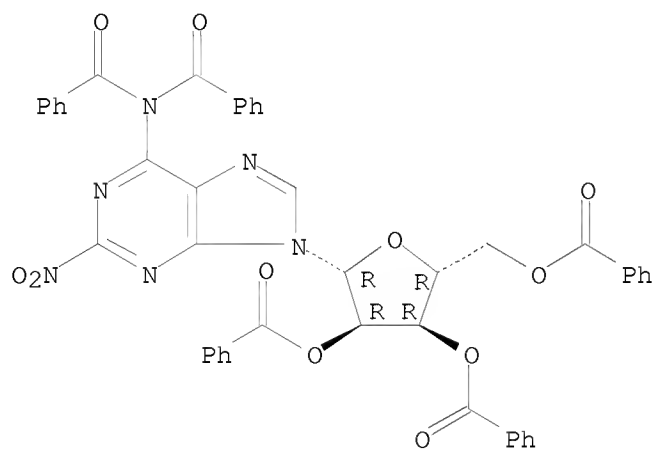
RN 62374-23-6 CAPLUS
CN Adenosine, N,N-dibenzoyl-, 2',3',5'-tribenzoate (CA INDEX NAME)

Absolute stereochemistry.



RN 854158-99-9 CAPLUS
CN Adenosine, N,N-dibenzoyl-2-nitro-, 2',3',5'-tribenzoate (CA INDEX NAME)

Absolute stereochemistry.



REFERENCE COUNT: 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 6 OF 17 CAPLUS COPYRIGHT 2009 ACS on STN

ACCESSION NUMBER: 1996:94598 CAPLUS

DOCUMENT NUMBER: 124:261582

ORIGINAL REFERENCE NO.: 124:48483a

TITLE: Synthesis of N6,2',3',5'-tetrabenzoyl- β -D-adenosine catalyzed by metal iodides

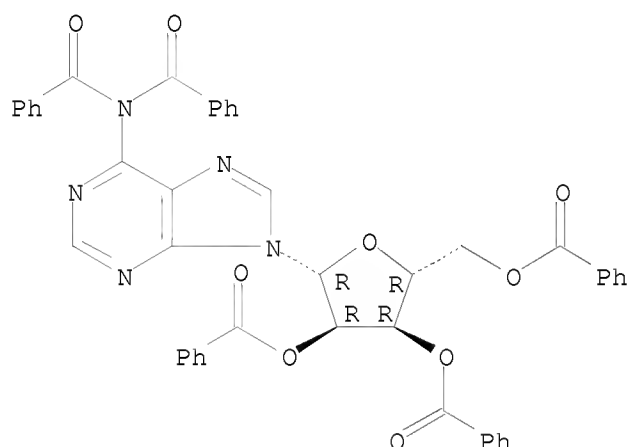
AUTHOR(S): Nagai, Masashi; Matsutani, Takafumi; Mukaiyama, Teruaki

CORPORATE SOURCE: Faculty of Science, Science University of Tokyo, Tokyo, 162, Japan

SOURCE: Heterocycles (1996), 42(1), 57-63
CODEN: HTCYAM; ISSN: 0385-5414

PUBLISHER: Japan Institute of Heterocyclic Chemistry
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 OTHER SOURCE(S): CASREACT 124:261582
 AB N-glycosidation of N6-benzoyl-N6,N9-bis(trimethylsilyl)adenine with Me
 2,3,5-tri-O-benzoyl-β-D-ribofuranosyl carbonate was effectively
 promoted by several metal iodides and a desired coupling product,
 N6,2',3',5'-tetrabenzoyl-β-D-adenosine, was obtained in high yield
 when SbI3 or TeI4 was used as a catalyst.
 IT 62374-23-6
 RL: RCT (Reactant); RACT (Reactant or reagent)
 (synthesis of tetrabenzoyl-adenosine catalyzed by metal iodides)
 RN 62374-23-6 CAPLUS
 CN Adenosine, N,N-dibenzoyl-, 2',3',5'-tribenzoate (CA INDEX NAME)

Absolute stereochemistry.



L4 ANSWER 7 OF 17 CAPLUS COPYRIGHT 2009 ACS on STN
 ACCESSION NUMBER: 1990:210963 CAPLUS
 DOCUMENT NUMBER: 112:210963
 ORIGINAL REFERENCE NO.: 112:35457a,35460a
 TITLE: Preparation of 2',5'-phosphorothioate oligoadenylates
 as virucides
 INVENTOR(S): Suhadolnik, Robert J.; Pflleiderer, Wolfgang
 PATENT ASSIGNEE(S): Temple University, USA
 SOURCE: PCT Int. Appl., 74 pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 8903683	A1	19890505	WO 1988-US3634	19881018
W: AU, BB, BG, BR, DK, FI, HU, JP, KP, KR, LK, MC, MG, MW, NO, RO, SD, SU				
RW: AT, BE, BJ, CF, CG, CH, CM, DE, FR, GA, GB, IT, LU, ML, MR, NL, SE, SN, TD, TG				
US 4924624	A	19900515	US 1987-112591	19871022
AU 8826280	A	19890523	AU 1988-26280	19881018
EP 389521	A1	19901003	EP 1988-909900	19881018

EP 389521	B1	19960320		
R: AT, BE, CH, DE, FR, GB, IT, LI, LU, NL, SE				
JP 04500795	T	19920213	JP 1988-509144	19881018
JP 2733777	B2	19980330		
EP 694559	A2	19960131	EP 1995-202077	19881018
EP 694559	A3	19960731		
EP 694559	B1	19990414		
R: AT, BE, CH, DE, FR, GB, IT, LI, LU, NL, SE				
AT 135579	T	19960415	AT 1988-909900	19881018
CA 1339953	C	19980714	CA 1988-580426	19881018
AT 178902	T	19990415	AT 1995-202077	19881018
US 5188897	A	19930223	US 1990-499109	19900326
US 5405939	A	19950411	US 1992-915771	19920716
US 5556840	A	19960917	US 1994-348419	19941202
PRIORITY APPLN. INFO.:			US 1987-112591	A 19871022
			EP 1988-909900	A3 19881018
			WO 1988-US3634	A 19881018
			US 1990-499118	B1 19900326
			US 1992-915771	A3 19920716
OTHER SOURCE(S):		CASREACT 112:210963; MARPAT 112:210963		
GI				

* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

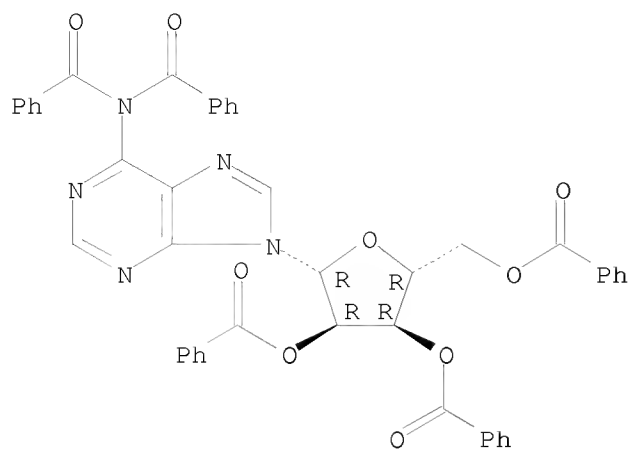
AB The optical isomers of the title compds. (I; m = 0-3; n = 1, 2) are prepared as medical and agrochem. virucides.
 6-N-Benzoyl-3'-O-tert-butyldimethylsilyl-5'-O-monomethoxytrityl-(Sp)-P-thioadenylyl-2'-[O-(p-nitrophenylethyl)-5']-N-6-benzoyl-3'-O-tert-butyldimethylsilyl-(Sp)-P-thioadenylyl-2'-[O-(p-nitrophenylethyl)-5']-6-N-benzoyl-2',3'-bis-O-tert-butyldimethylsilyl-adenosine (preparation given) was detritylated with p-toluenesulfonic acid in CH₂Cl₂-MeOH (4:1), followed by TLC purification and reaction with 6-N-benzoyl-3'-O-tert-butyldimethylsilyl-5'-O-(4-ethoxytrityl)adenosine-2'-O-(p-nitrophenylethyl)octahydroazoninophosphoramidite (preparation given) in MeCN. 3-Nitro-1,2,4-triazole and S in pyridine were added to give the protected SpSpSp and RpSpSp tetramers, which were deblocked by stirring with DBU in pyridine, followed by neutralization and desilylation with Bu₄NF in THF, to give (Rp)-P-thioadenylyl-(2'→5')-(Sp)-P-thioadenylyl-(2'→5')-(Sp)-P-thioadenylyl-(2'→5')-adenosine (II) and its isomer. II (200 μM) inhibited the human immunodeficiency virus (HTLV-IIIBH-9) reverse transcriptase activity in vitro, as shown by a modification of the method of B. J. Poiesz, et al. (1980).

IT 62374-23-6P
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
 (preparation and debenzoylation of)

RN 62374-23-6 CAPLUS

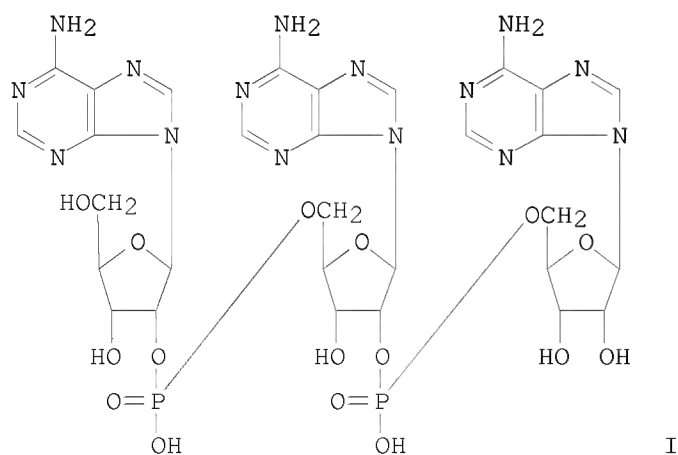
CN Adenosine, N,N-dibenzoyl-, 2',3',5'-tribenzoate (CA INDEX NAME)

Absolute stereochemistry.



REFERENCE COUNT: 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 8 OF 17 CAPLUS COPYRIGHT 2009 ACS on STN
 ACCESSION NUMBER: 1987:214280 CAPLUS
 DOCUMENT NUMBER: 106:214280
 ORIGINAL REFERENCE NO.: 106:34789a,34792a
 TITLE: Solid-phase synthesis of 2'-5' oligoadenylate-2'-5' A core
 AUTHOR(S): He, Binglin; Chen, Weizhu; Liu, Kellang; Zong, Jianchao; Li, Naihong
 CORPORATE SOURCE: Dep. Chem., Nankai Univ., Tianjin, Peop. Rep. China
 SOURCE: Scientia Sinica, Series B: Chemical, Biological, Agricultural, Medical & Earth Sciences (English Edition) (1986), 29(7), 686-97
 CODEN: SSBSEF; ISSN: 0253-5823
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 GI



AB 2'-5' A core I was prepared on cross-linked polyacrylomorpholide resin as support by the phosphotriester approach using mesitylenesulfonyl chloride and N-methylimidazole as the condensing agents. Yields of the attachment

of the protected monomer to the support and subsequent 2 coupling reactions were 100, 60, and 91%, resp.

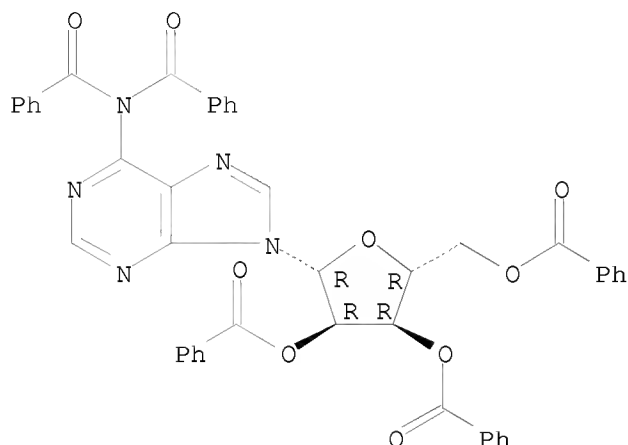
IT 62374-23-6P

RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of, intermediate in solid-phase synthesis of
2'-5'-oligoadenylate)

RN 62374-23-6 CAPLUS

CN Adenosine, N,N-dibenzoyl-, 2',3',5'-tribenzoate (CA INDEX NAME)

Absolute stereochemistry.



L4 ANSWER 9 OF 17 CAPLUS COPYRIGHT 2009 ACS on STN

ACCESSION NUMBER: 1986:553466 CAPLUS

DOCUMENT NUMBER: 105:153466

ORIGINAL REFERENCE NO.: 105:24745a,24748a

TITLE: Regioselective protection of carbohydrate derivatives.
Part 20. Simple, efficient 2'-O-deacylation of fully
acylated purine and pyrimidine ribonucleosides through
tert-butoxide

AUTHOR(S): Nishino, Shigeyoshi; Takamura, Hatsuko; Ishido,
Yoshiharu

CORPORATE SOURCE: Fac. Sci., Tokyo Inst. Technol., Tokyo, 152, Japan

SOURCE: Tetrahedron (1986), 42(7), 1995-2004

CODEN: TETRAB; ISSN: 0040-4020

DOCUMENT TYPE: Journal

LANGUAGE: English

OTHER SOURCE(S): CASREACT 105:153466

AB A simple treatment of fully aroylated purine and pyrimidine
ribonucleosides with pulverized potassium tert-butoxide in THF or
dichloromethane under a controlled condition gave a mixture of the
corresponding di-O-aroyl derivs. in which 2'-OH derivs. are preponderant
over 3'-OH derivs.; 3',5'-di-O-benzoyluridine,
N4,3',5'-tribenzoylcytidine, N4,3',5'-tri-o-toluoylcytidine,
N2,3',5'-tribenzoylguanosine, and N2-
isobutyryl-3',5'-di-O-benzoylguanosine were obtained crystalline in 80%, 78%,
72%, 67%, and 65% yields, resp.

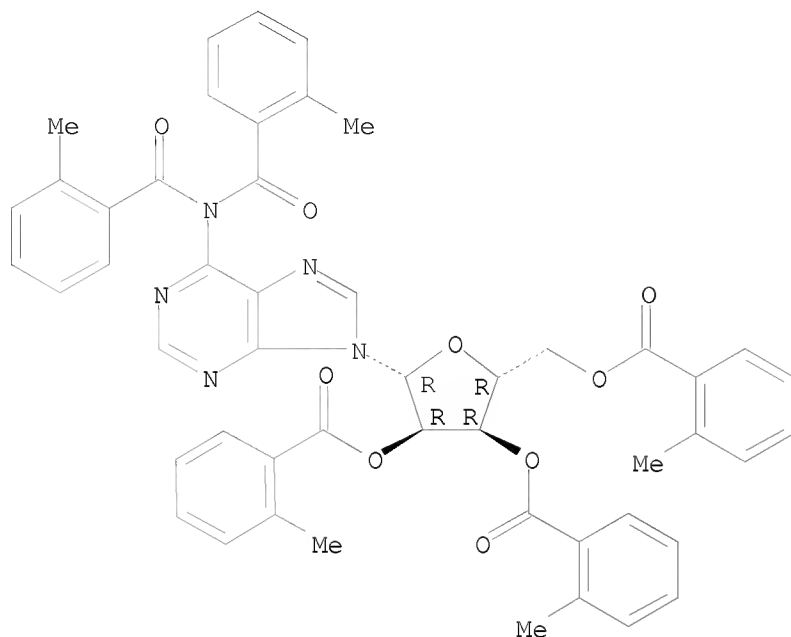
IT 104557-13-3P

RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of, by regioselective O-dearoylation)

RN 104557-13-3 CAPLUS

CN Adenosine, N,N-bis(2-methylbenzoyl)-, 2',3',5'-tris(2-methylbenzoate)
(9CI) (CA INDEX NAME)

Absolute stereochemistry.



L4 ANSWER 10 OF 17 CAPLUS COPYRIGHT 2009 ACS on STN

ACCESSION NUMBER: 1985:62520 CAPLUS

DOCUMENT NUMBER: 102:62520

ORIGINAL REFERENCE NO.: 102:9825a,9828a

TITLE: Photobromination of carbohydrate derivatives. Part 8.
Reaction of furanose derivatives with
N-bromosuccinimide. X-ray molecular structure of
1-O-acetyl-2,5,6-tri-O-benzoyl-4-hydroxy-3,4-O-
(α -succinimidobenzylidene)- β -D-
galactofuranose

AUTHOR(S): Ferrier, Robert J.; Haines, Stephen R.; Gainsford,
Graeme J.; Gabe, Eric J.

CORPORATE SOURCE: Dep. Chem., Victoria Univ. Wellington, Wellington, N.
Z.

SOURCE: Journal of the Chemical Society, Perkin Transactions
1: Organic and Bio-Organic Chemistry (1972-1999)
(1984), (8), 1683-7
CODEN: JCPRB4; ISSN: 0300-922X

DOCUMENT TYPE: Journal

LANGUAGE: English

GI For diagram(s), see printed CA Issue.

AB Photobromination of 1-O-acetyl-2,3,5,6-tetra-O-benzoyl- β -D-gluco- or
-galactofuranose with NBS in refluxing CCl_4 for 0.9 h gave the title
compound (I) in 74 and 64% yield, resp.; the structure of I was determined by
x-ray crystallog. Similar reactions occurred with N-bromophthalimide and
-acetamide. Reaction of 1-O-acetyl-2,3,5-tri-O-benzoyl- β -D-
ribofuranose, pentabenzoyl-adenosine, and
1,2,3,4-tetra-O-acetyl- β -D-xylopyranose under these conditions gave
the 4-, 4-, and 5-bromide, resp.

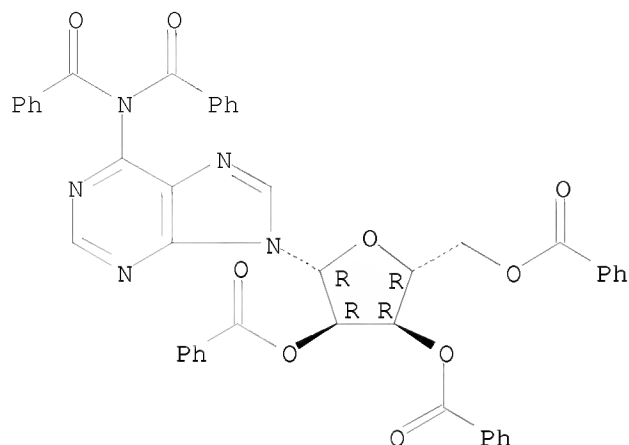
IT 62374-23-6

RL: RCT (Reactant); RACT (Reactant or reagent)
(bromination of, by NBS)

RN 62374-23-6 CAPLUS

CN Adenosine, N,N-dibenzoyl-, 2',3',5'-tribenzoate (CA INDEX NAME)

Absolute stereochemistry.



L4 ANSWER 11 OF 17 CAPLUS COPYRIGHT 2009 ACS on STN

ACCESSION NUMBER: 1981:620267 CAPLUS

DOCUMENT NUMBER: 95:220267

ORIGINAL REFERENCE NO.: 95:36765a,36768a

TITLE: Nucleosides. XXXVII. Synthesis and properties of 2'-O- and 3'-O-(tert-butyldimethylsilyl)-5'-O-(4-methoxytrityl)- and 2',3'-bis(O-tert-butyldimethylsilyl)ribonucleosides - starting materials for oligoribonucleotide syntheses

AUTHOR(S): Flockerzi, Dieter; Silber, Gunter; Charubala, Ramamurthy; Schlosser, Wilhelm; Varma, Rajendra Singh; Creegan, Frank; Pfeleiderer, Wolfgang

CORPORATE SOURCE: Fak. Chem., Univ. Konstanz, Konstanz, D-7750, Fed. Rep. Ger.

SOURCE: Liebigs Annalen der Chemie (1981), (9), 1568-85

CODEN: LACHDL; ISSN: 0170-2041

DOCUMENT TYPE: Journal

LANGUAGE: German

AB The title nucleosides were prepared from adenosine, guanosine, cytidine, uridine, and 5,6-dihydrouridine. For example, N6-benzoyl-adenosine, prepared from adenosine in 2 steps, was treated with 4-methoxytrityl chloride and then silylated with Me3CSiMe2Cl to give 2'-O-(tert-butyldimethylsilyl)-, 3'-O-(tert-butyldimethylsilyl)-, and 2',3'-O-bis(tert-butyldimethylsilyl)-N6-benzoyl-5'-O-(4-methoxytrityl)adenosine (I). I was detritylated to give 2',3'-O-bis(tert-butyldimethylsilyl)-N6-benzoyl-adenosine. The compds. prepared were characterized by UV and 13C-NMR spectroscopy.

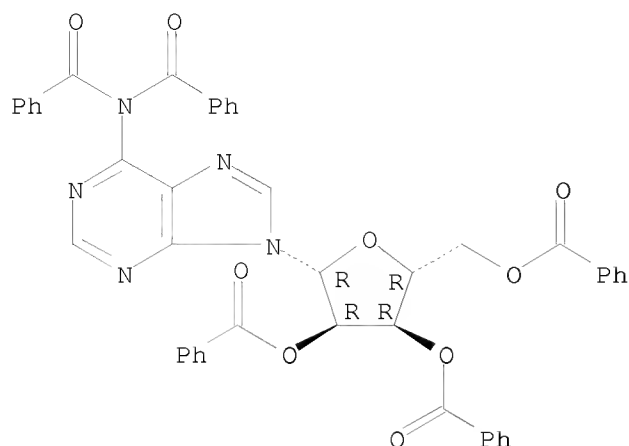
IT 62374-23-6P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation and partial debenzoylation of)

RN 62374-23-6 CAPLUS

CN Adenosine, N,N-dibenzoyl-, 2',3',5'-tribenzoate (CA INDEX NAME)

Absolute stereochemistry.



L4 ANSWER 12 OF 17 CAPLUS COPYRIGHT 2009 ACS on STN

ACCESSION NUMBER: 1980:59149 CAPLUS

DOCUMENT NUMBER: 92:59149

ORIGINAL REFERENCE NO.: 92:9815a,9818a

TITLE: Partial protection of carbohydrate derivatives. Part 3. Regioselective 2'-O-deacylation of fully acylated purine and pyrimidine ribonucleosides with hydrazine hydrate

AUTHOR(S): Ishido, Yoshiharu; Nakazaki, Nobuo; Sakairi, Nobuo

CORPORATE SOURCE: Dep. Chem., Tokyo Inst. Technol., Tokyo, Japan

SOURCE: Journal of the Chemical Society, Perkin Transactions 1: Organic and Bio-Organic Chemistry (1972-1999) (1979), (8), 2088-98

CODEN: JCPRB4; ISSN: 0300-922X

DOCUMENT TYPE: Journal

LANGUAGE: English

AB In 1:4 (volume/volume) AcOH-pyridine, partial O-deacylation of fully acylated purine and pyrimidine ribonucleosides upon hydrazinolysis was induced regioselectively in respect to 3 ester functions at the 2'-position to give the corresponding 2'-OH analogs in good yields. E.g., 3',5'-di-O-benzoyl-adenosine (70%), -inosine (52%), and -uridine (39%), N2-benzoyl-3',5'-diacetyl- (42%) and N2,3',5'-tribenzoylguanosine (63%) were isolated. 5'-O-Acylnucleosides were prepared quantitatively using an excess of H2NNH2.H2O in 1:1 (volume/volume) CHCl3-MeOH and in pyridine. Hydrazinolysis of 3',5'-di-O-acetyl-2'-deoxyribonucleosides in pyridine gave both 5'- and 3'-O-acetyl-2'-deoxyribonucleosides (80-90% total yields). The 2'-O-acetyl group is more labile toward the nucleophile than the 3'-O-acetyl group. Possible factors involved in the regioselectivity of hydrazinolysis are discussed.

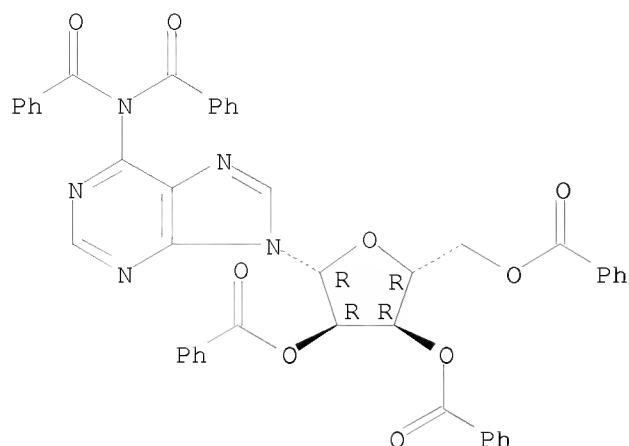
IT 62374-23-6

RL: RCT (Reactant); RACT (Reactant or reagent)
(partial deacylation of, with hydrazine)

RN 62374-23-6 CAPLUS

CN Adenosine, N,N-dibenzoyl-, 2',3',5'-tribenzoate (CA INDEX NAME)

Absolute stereochemistry.



L4 ANSWER 13 OF 17 CAPLUS COPYRIGHT 2009 ACS on STN

ACCESSION NUMBER: 1979:575681 CAPLUS
 DOCUMENT NUMBER: 91:175681
 ORIGINAL REFERENCE NO.: 91:28351a,28354a
 TITLE: Purinearabinosides
 INVENTOR(S): Ishito, Ryoji; Sakairi, Nobuo
 PATENT ASSIGNEE(S): Ajinomoto Co., Inc., Japan
 SOURCE: Jpn. Kokai Tokkyo Koho, 3 pp.
 CODEN: JKXXAF

DOCUMENT TYPE: Patent
 LANGUAGE: Japanese
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 54073795	A	19790613	JP 1977-138208	19771117

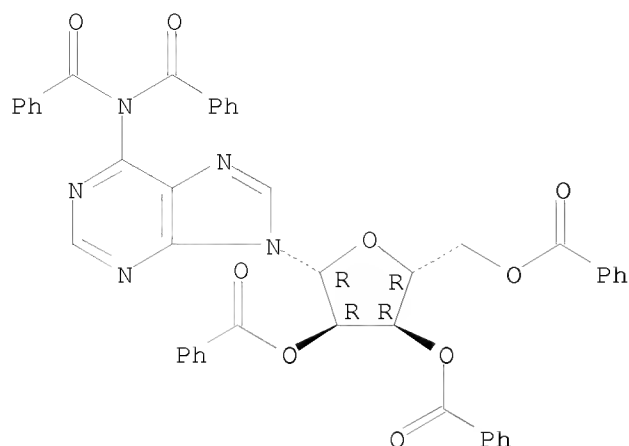
PRIORITY APPLN. INFO.: JP 1977-138208 A 19771117

AB Stirring a mixture of 1.58 g N₆,N₆,2',3',5'-pentabenzoyladenine and 0.39 mL N₂H₄.H₂O in 4:1 pyridine-AcOH 15 h at 70-5° gave 70% 3',5'-di-O-benzoyladenine, which (1740 mg) was stirred with 10 mL Ac₂O in Me₂SO overnight at room temperature to give, after neutralization and extraction with AcOEt, a syrup, which was stirred with 150 mg NaBH₄ in 1:1 C₆H₆-EtOH 2 h at 0°, filtered, concentrated, and stirred with a few drops of 2 N MeONa/MeOH 2 h at room temperature to give 537 mg 9-β-D-arabinofuranosyladenine. Similarly, 9-β-D-arabinofuranosylguanine was prepared from N₂,2',3',5'-tetrabenzoylguanosine via N₂,3',5'-tribenzoylguanosine.

IT 62374-23-6
 RL: RCT (Reactant); RACT (Reactant or reagent)
 (partial debenzoylation of)

RN 62374-23-6 CAPLUS
 CN Adenosine, N,N-dibenzoyl-, 2',3',5'-tribenzoate (CA INDEX NAME)

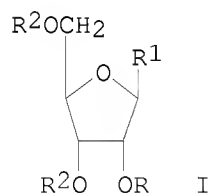
Absolute stereochemistry.



L4 ANSWER 14 OF 17 CAPLUS COPYRIGHT 2009 ACS on STN

ACCESSION NUMBER: 1978:615726 CAPLUS
 DOCUMENT NUMBER: 89:215726
 ORIGINAL REFERENCE NO.: 89:33541a,33544a
 TITLE: Nucleoside derivatives
 INVENTOR(S): Ishito, Ryoji; Nakasaki, Nobuo; Sakairi, Nobuo
 PATENT ASSIGNEE(S): Ajinomoto Co., Inc., Japan
 SOURCE: Jpn. Kokai Tokkyo Koho, 5 pp.
 CODEN: JKXXAF
 DOCUMENT TYPE: Patent
 LANGUAGE: Japanese
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 53084972	A	19780726	JP 1976-159283	19761229
PRIORITY APPLN. INFO.: GI			JP 1976-159283	A 19761229

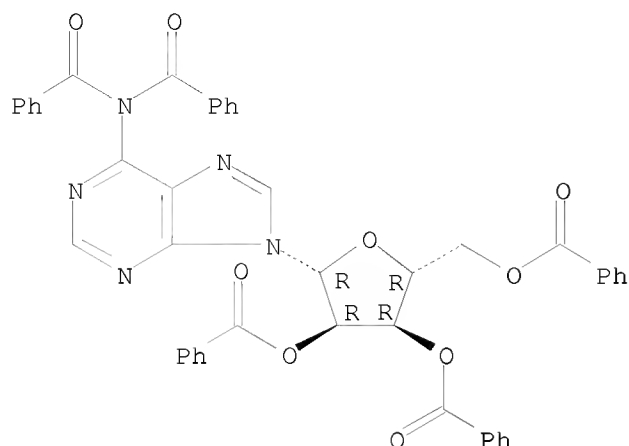


AB Nucleosides (I; R = H, R1 = nucleoside base, R2 = acyl) were prepared by reaction of I (R = R2 = acyl, R1 as before) with organic amines. Thus, a mixture of N6,N6,2',3',5'-pentabenzoyladenosine and N2H4.H2O in pyridine-AcOH was stirred 15 h at 70-5° to give 70% 3',5'-di-O-benzoyladenosine.

IT 62374-23-6
 RL: RCT (Reactant); RACT (Reactant or reagent)
 (partial debenzoylation of)

RN 62374-23-6 CAPLUS
 CN Adenosine, N,N-dibenzoyl-, 2',3',5'-tribenzoate (CA INDEX NAME)

Absolute stereochemistry.



L4 ANSWER 15 OF 17 CAPLUS COPYRIGHT 2009 ACS on STN

ACCESSION NUMBER: 1977:468565 CAPLUS

DOCUMENT NUMBER: 87:68565

ORIGINAL REFERENCE NO.: 87:10941a,10944a

TITLE: Partial protection of carbohydrate derivatives. Part 1. Specific N-debenzoylation of fully benzoylated adenosine and cytidine with phenols and alcohols; active N-benzoyl groups

AUTHOR(S): Ishido, Yoshiharu; Nakazaki, Nobuo; Sakairi, Nobuo

CORPORATE SOURCE: Dep. Chem., Tokyo Inst. Technol., Tokyo, Japan

SOURCE: Journal of the Chemical Society, Perkin Transactions 1: Organic and Bio-Organic Chemistry (1972-1999) (1977), (6), 657-60

CODEN: JCPRB4; ISSN: 0300-922X

DOCUMENT TYPE: Journal

LANGUAGE: English

GI For diagram(s), see printed CA Issue.

AB Regiospecific N-debenzoylation of the adenosine derivs. I (R = H, Bz, R1 = Bz) (II and III, resp.) and the cytidine derivative IV (R = R1 = Bz) (V) occurred on treatment with various hydroxy compds. to give the corresponding nucleoside benzoates I (R = H, Bz, R1 = H) and IV (R = H, R1 = Bz), resp. The reaction is also a benzoylation of the hydroxy compds. by the nucleoside N-benzoyl groups; the order of activity is III > II > V. N-benzoylation of I (R = R1 = H) with 2,4-(O2N)2C6H3OBz and of IV (R = R1 = H) with III gave 83% II and 92% IV (R = Bz, R1 = H), resp.

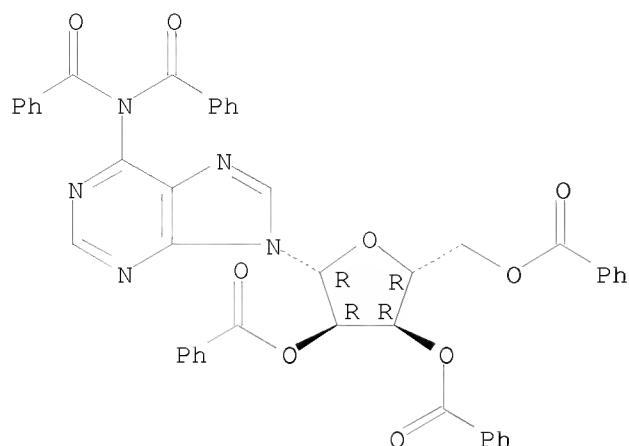
IT 62374-23-6

RL: RCT (Reactant); RACT (Reactant or reagent)
(regiospecific debenzoylation of, by hydroxy compds.)

RN 62374-23-6 CAPLUS

CN Adenosine, N,N-dibenzoyl-, 2',3',5'-tribenzoate (CA INDEX NAME)

Absolute stereochemistry.



L4 ANSWER 16 OF 17 CAPLUS COPYRIGHT 2009 ACS on STN

ACCESSION NUMBER: 1977:140381 CAPLUS

DOCUMENT NUMBER: 86:140381

ORIGINAL REFERENCE NO.: 86:22061a,22064a

TITLE: A novel procedure for regioselective 2'-O-deacylation of fully acylated purine and pyrimidine ribonucleosides with hydrazine hydrate

AUTHOR(S): Ishido, Yoshiharu; Nakazaki, Nobuo; Sakairi, Nobuo

CORPORATE SOURCE: Fac. Sci., Tokyo Inst. Technol., Tokyo, Japan

SOURCE: Nucleic Acids Research, Special Publication (1976),

2(Symp. Nucleic Acids Chem., 4th, 1976), 25-8

CODEN: NARPD6; ISSN: 0309-1872

DOCUMENT TYPE: Journal

LANGUAGE: English

AB Hydrazinolyses of e.g. N6,N6,2',3',5'-pentabenzoyladenine, N2,2',3',5'-tetrabenzoylguanosine, in AcOH-pyridine were regioselectively induced at 2' position of the alc. functions to give 63 and 44% of the corresponding 2'-hydroxyl derivs., resp. The procedure was also effective for partial debenzoylation of benzoylated uridine and cytidine although there was poorer regioselectivity. The treatment of N4,2',3',5'-tetraacetylcytidine was accompanied by no side reactions observed in that of the corresponding benzoate. The procedure was applied to the partial deacylation of 2'-deoxyribonucleoside acylates.

IT 62374-23-6

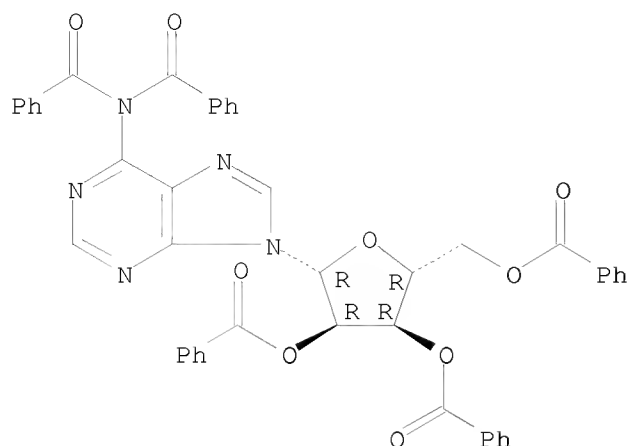
RL: RCT (Reactant); RACT (Reactant or reagent)

(deacylation of, hydrazine for)

RN 62374-23-6 CAPLUS

CN Adenosine, N,N-dibenzoyl-, 2',3',5'-tribenzoate (CA INDEX NAME)

Absolute stereochemistry.



L4 ANSWER 17 OF 17 CAPLUS COPYRIGHT 2009 ACS on STN

ACCESSION NUMBER: 1977:106947 CAPLUS

DOCUMENT NUMBER: 86:106947

ORIGINAL REFERENCE NO.: 86:16885a,16888a

TITLE: Novel procedure for regioselective 2'-O-deacylation of fully acylated purine and pyrimidine ribonucleosides with hydrazine hydrate

AUTHOR(S): Ishido, Yoshiharu; Nakazaki, Nobuo; Sakairi, Nobuo

CORPORATE SOURCE: Dep. Chem., Tokyo Inst. Technol., Tokyo, Japan

SOURCE: Journal of the Chemical Society, Chemical

Communications (1976), (20), 832-3

CODEN: JCCCAT; ISSN: 0022-4936

DOCUMENT TYPE: Journal

LANGUAGE: English

AB Hydrazinolysis of N₆,N₆,2',3',5'-pentabenzoyladenosine, N₂,2',3',5'-tetrabenzoylguanosine, and 2',3',5'-tri-O-benzoylinosine with NH₂NH₂.H₂O in AcOH-pyridine gave 68-70% of the corresponding 2'-OH derivs. Fully benzoylated uridine and cytidine were debenzoylated similarly but the regioselectivity observed was not as good. The same trend was observed in the hydrazinolysis of the corresponding acetates. E.g., hydrazinolysis of 2',3',5'-O-acetyladenosine gave 60% 3',5'-di-O-acetyladenosine.

IT 62374-23-6

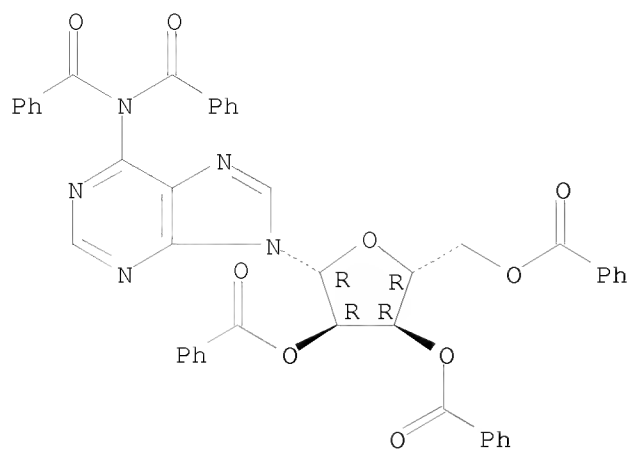
RL: RCT (Reactant); RACT (Reactant or reagent)

(regioselective debenzoylation of, by hydrazinolysis)

RN 62374-23-6 CAPLUS

CN Adenosine, N,N-dibenzoyl-, 2',3',5'-tribenzoate (CA INDEX NAME)

Absolute stereochemistry.



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FILE 'REGISTRY' ENTERED AT 15:31:12 ON 24 MAY 2009

L1 STRUCTURE UPLOADED

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L3 6 S L1 SSS FULL

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